

L Number	Hits	Search Text	DB	Time stamp
1	996	(resist photoresist) and (\$5acid near generator) and (sulfonic adj acid)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 15:18
2	877	((resist photoresist) and (\$5acid near generator) and (sulfonic adj acid)) and (onium sulfonium iodonium sulfonate nonionic non-ionic)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 15:19
3	0	((((resist photoresist) and (\$5acid near generator) and (sulfonic adj acid)) and (onium sulfonium iodonium sulfonate nonionic non-ionic)) and (430/270.1.cccls)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 15:19
4	559	((resist photoresist) and (\$5acid near generator) and (sulfonic adj acid)) and (onium sulfonium iodonium sulfonate nonionic non-ionic)) and (430/270.1.cccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 15:19
5	374	((((resist photoresist) and (\$5acid near generator) and (sulfonic adj acid)) and (onium sulfonium iodonium sulfonate nonionic non-ionic)) and (430/270.1.cccls.))	USPAT	2003/08/07 15:56
6	0	wo-9410608-\$ did.	USPAT	2003/08/07 17:27
7	59	n-sulfonyloxyimide	USPAT	2003/08/07 15:57
8	28	n-sulfonyloxyimide and (((resist photoresist) and (\$5acid near generator) and (sulfonic adj acid)) and (onium sulfonium iodonium sulfonate nonionic non-ionic)) and (430/270.1.cccls.))	USPAT	2003/08/07 15:57
9	0	wo-940010608-\$ did.	USPAT	2003/08/07 17:27
10	0	wo-94010608-\$ did.	USPAT	2003/08/07 17:28
13	4	(("5296332") or ("6280911")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 18:11
-	2	("20030027061").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/06 16:36
-	0	20030027061.URPN.	USPAT	2003/08/06 16:35
-	0	alpha,alpha-difluoroalkyl adj sulfonic adj acid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/06 16:36
-	2	\$-difluoroalkyl adj sulfonic adj acid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/06 16:37
-	2	\$difluoro\$8yl adj sulfonic adj acid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/06 16:40
-	15153	(\$5ACID NEAR GENERAT\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 10:28
-	21	DIFLUORO\$ NEAR SULFONIC	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/06 16:41
-	35	FLUOR\$8 NEAR (ALKANESULFONIC ADJ ACID)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/06 17:19
-	4	(FLUOR\$8 NEAR (ALKANESULFONIC ADJ ACID)) AND (BINDER RESIN RESIST PHOTORESIST)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/06 17:29
-	3	6358665.URPN.	USPAT	2003/08/06 17:21
-	60	CAMERON-JAMES CAMERON-JAMES-F CAMERON-JAMES-FIELD (zydowsky-thomas.in.) (zydowsky-t.in.) (zydowsky-thomas-m.in.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 10:27

-	38	(CAMERON-JAMES CAMERON-JAMES-F CAMERON-JAMES-FIELD (zydowsky-thomas.in.) (zydownsky-t.in.) (zydowsky-thomas-m.in.) and (resist photoresist resin binder) (\$5ACID NEAR GENERAT\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 10:28
-	15196		USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 10:28
-	26	((CAMERON-JAMES CAMERON-JAMES-F CAMERON-JAMES-FIELD (zydowsky-thomas.in.) (zydownsky-t.in.) (zydowsky-thomas-m.in.)) and (resist photoresist resin binder)) and (((\$5ACID NEAR GENERAT\$4)) (CAMERON-JAMES CAMERON-JAMES-F CAMERON-JAMES-FIELD (zydowsky-thomas.in.) (zydownsky-t.in.) (zydowsky-thomas-m.in.)) and (((\$5ACID NEAR GENERAT\$4)) (photoacid near generator) same (phosphoric adj acid)	USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 12:30
-	27		USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 12:35
-	7		USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 12:54
-	4518	method same prepar\$4 same (sulfonic adj acid)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/07 15:17
-	1907	onium adj compounds	USPAT; US-PGPUB; EPO; JPO; DERWENT	

L28 ANSWER 2 OF 3 USPAT2 on STN
 ACCESSION NUMBER: 2002:78363 USPAT2
 TITLE: Resist composition comprising photosensitive polymer
 having lactone in its backbone
 INVENTOR(S): Yoon, Kwang-sub, Seoul, KOREA, REPUBLIC OF
 Jung, Dong-won, Yongin, KOREA, REPUBLIC OF
 Lee, Si-hyeung, Suwon, KOREA, REPUBLIC OF
 Kim, Hyun-woo, Sungnam, KOREA, REPUBLIC OF
 Lee, Sook, Seoul, KOREA, REPUBLIC OF
 Woo, Sang-gyun, Suwon, KOREA, REPUBLIC OF
 Choi, Sang-jun, Seoul, KOREA, REPUBLIC OF
 PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., Suwon, KOREA, REPUBLIC
 OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6537727	B2	20030325
APPLICATION INFO.:	US 2001-901569		20010711 (9)

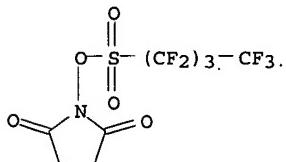
	NUMBER	DATE
PRIORITY INFORMATION:	KR 2000-39562	20000711
	KR 2000-75485	20001212
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Baxter, Janet	
ASSISTANT EXAMINER:	Thornton, Yvette C.	
LEGAL REPRESENTATIVE:	Volentine Francos, PLLC	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	739	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 252937-66-9, N-Hydroxysuccinimide nonaflate
 (photoacid generator; chem. amplified ArF-laser photoresist compns.
 having lactone-contg. polymers with good dry etching resistance)

RN 252937-66-9 USPAT2

CN 2,5-Pyrrolidinedione, 1-[[[(nonafluorobutyl)sulfonyl]oxy]- (9CI) (CA INDEX
 NAME)

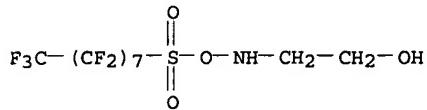


AB A resist composition includes a photosensitive polymer having a lactone in its backbone. The photosensitive polymer of the resist composition includes at least one of the monomers having the formulae: ##STR1##

where R_{sub.1} and R_{sub.2} are independently a hydrogen atom, alkyl, hydroxyalkyl, alkyloxy, carbonyl or ester, and x, y, v and w are independently integers from 1 to 6.

STN Search
 Do Not Remove

L20 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 3824-49-5 REGISTRY
 CN Hydroxylamine, O-[(heptadecafluoroctyl)sulfonyl]-N-(2-hydroxyethyl)-
 (8CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C10 H6 F17 N O4 S

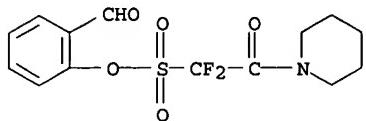


Calculated Properties (CALC)

PROPERTY (CODE)	VALUE	CONDITION	NOTE
Bioconc. Factor (BCF)	494035	pH 1	(1) ACD
Bioconc. Factor (BCF)	494035	pH 4	(1) ACD
Bioconc. Factor (BCF)	494035	pH 7	(1) ACD
Bioconc. Factor (BCF)	494035	pH 8	(1) ACD
Bioconc. Factor (BCF)	494001	pH 10	(1) ACD
Boiling Point (BP)	294.3+/-50.0 deg C	760.0 Torr	(1) ACD
Enthalpy of Vap. (HVAP)	61.95+/-6.0 kJ/mol		(1) ACD
Flash Point (FP)	131.8+/-54.2 deg C		(1) ACD
Freely Rotatable Bonds (FRB)	11		(1) ACD
H acceptors (HAC)	5		(1) ACD
H donors (HD)	2		(1) ACD
Koc (KOC)	413890	pH 1	(1) ACD
Koc (KOC)	413890	pH 4	(1) ACD
Koc (KOC)	413890	pH 7	(1) ACD
Koc (KOC)	413890	pH 8	(1) ACD
Koc (KOC)	413862	pH 10	(1) ACD
logD (LOGD)	7.79	pH 1	(1) ACD
logD (LOGD)	7.79	pH 4	(1) ACD
logD (LOGD)	7.79	pH 7	(1) ACD
logD (LOGD)	7.79	pH 8	(1) ACD
logD (LOGD)	7.79	pH 10	(1) ACD
logP (LOGP)	7.796+/-1.384		(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 1	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 4	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 7	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 8	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 10	(1) ACD
Molecular Weight (MW)	559.20		(1) ACD
Vapor Pressure (VP)	0.0000171457 Torr	25.0 deg C	(1) ACD

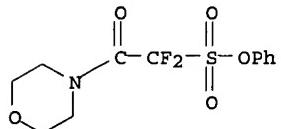
(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris
 V4.76 ((C) 1994-2003 ACD)

L26 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN
RN 476209-50-4 REGISTRY
CN 1-Piperidineethanesulfonic acid, .alpha.,.alpha.-difluoro-.beta.-oxo-,
2-formylphenyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H15 F2 N O5 S
SR Chemical Library
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN
RN 304884-69-3 REGISTRY
CN 4-Morpholineethanesulfonic acid, .alpha.,.alpha.-difluoro-.beta.-oxo-,
phenyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H13 F2 N O5 S
SR Chemical Library
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT